



December 20, 2021

Swati Rastogi
Planner
Bonner County Planning Department
1500 HWY 2, Suite 208
Sandpoint, ID 83864

Re: *Garfield Bay Subdivision*

Reeve and Associates has reviewed and provides this analysis for a shared well for the proposed subdivision as required by Bonner County. It is anticipated that a domestic well in this area will provide a flow of 25 gpm, which will provide sufficient flow for the peak day demand of the proposed subdivision. No additional storage for domestic water usage is anticipated to be required. Emergency water storage to satisfy the requirements of the Fire Marshall shall be provided.

- The proposed well will provide 25 gpm.
- Each lot will require an average of 800 gpd, which equates 0.56 gpm.
- A peaking factor per lot for domestic water usage requirements is taken as being 3 times the average required flow, each lot must be provided 1.67 gpm at the peak time.
- Equally distributing the 25 gpm flow to each of the 9 lots, 2.78 gpm will be provided for each.

It is our professional opinion that a domestic well producing 25 gmp will be sufficient to provide the proposed water supply to the 9 lots in the proposed subdivision.

Please let us know if there are any questions.

Sincerely,
REEVE & ASSOCIATES, INC.

A handwritten signature in dark ink, appearing to read 'Nate Reeve', is written over a light blue horizontal line.

Nate Reeve, P.E.
Principal Engineer
nate@reeve.co

Solutions You Can Build On™

Civil Engineering • Land Planning • Structural Engineering • Landscape Architecture • Land Surveying • Construction Surveying
5160 South 1500 West • Riverdale, Utah 84405 • Tel: 801-621-3100 • Fax: 801-621-2666
ogden@reeve-assoc.com • reeve-assoc.com